

OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

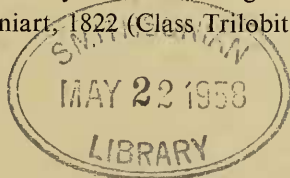
Edited by

FRANCIS HEMMING, C.M.G., C.B.E.
Secretary to the Commission

VOLUME 18. Part 14. Pp. 239—256, 1 pl.

OPINION 510

Validation under the Plenary Powers of the generic name
Asaphus Brongniart, 1822 (Class Trilobita)



LONDON:

Printed by Order of the International Trust for
Zoological Nomenclature
and

Sold on behalf of the International Commission on Zoological
Nomenclature by the International Trust at its Publications Office
41, Queen's Gate, London, S.W.7
1958

Price Thirteen Shillings and Sixpence

(All rights reserved)

INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 510

A. The Officers of the Commission

Honorary Life President : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

President : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)
(12th August 1953)

Vice-President : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

Secretary : Mr. Francis HEMMING (*London, England*) (27th July 1948)

B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitets Zoologiske Museum, Copenhagen, Denmark*) (27th
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)
(16th December 1954)

OPINION 510

VALIDATION UNDER THE PLENARY POWERS OF THE GENERIC NAME "ASAPHUS" BRONGNIART, 1822 (CLASS TRILOBITA)

RULING :—(1) The following action is hereby taken under the Plenary Powers :—

- (a) The generic name *Asaphus* Brongniart (A.), 1817, is hereby suppressed for the purposes both of the Law of Priority and of the Law of Homonymy.
- (b) The specific name *cornigerus* Schlotheim (E.Fr.v.), 1820, as published in the combination *Trilobites cornigerus* is hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy.
- (c) All selections of type species for the nominal genus *Asaphus* Brongniart, 1822, made prior to the present Ruling are hereby set aside and the nominal species *Entomostracites expansus* Wahlen-

berg (G.), 1821, as defined by the lectotype selected by Jaanusson (V.)(1956), is hereby designated to be the type species of the foregoing genus.

(2) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name Number 1258 :—

Asaphus Brongniart (A.), 1822, as validated under the Plenary Powers in (1)(a) above (gender : masculine) (type species, by designation under the Plenary Powers in (1)(c) above : *Entomostracites expansus* Wahlenberg (G.), 1821, as defined by the lectotype specified in (1)(c) above).

(3) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1501 :—

expansus Wahlenberg (G.), 1821, as published in the combination *Entomostracites expansus*, as defined by the lectotype specified in (1)(c) above (specific name of type species of *Asaphus* Brongniart (A.), 1822).

(4) The under-mentioned generic name is hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Number 1147 :—

Asaphus Brongniart (A.), 1817, as suppressed under the Plenary Powers in (1)(a) above.

(5) The under-mentioned specific names are hereby placed on the *Official Index of Rejected and Invalid*

Specific Names in Zoology with the Name Numbers severally specified below :—

(a) *expansus* Linnaeus, 1768, as published in the combination *Entomolithus paradoxus* [var.] α *expansus* (invalid because published in a work suppressed under the Plenary Powers by the Ruling given in *Opinion* 296) (Name No. 512) ;

(b) *cornigerus* Schlotheim (E.Fr.v.), 1820, as published in the combination *Trilobites cornigerus*, as suppressed under the Plenary Powers in (1)(b) above (Name No. 513).

(6) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name Number 217 :—

ASAPHIDAE Burmeister (H.), 1843 (type genus : *Asaphus* Brongniart, 1822).

I. THE STATEMENT OF THE CASE

On 2nd July 1955 Dr. Valdar Jaanusson (*Universitetets Paleontologiska Institution, Uppsala, Sweden*) submitted to the Office of the Commission a preliminary application designed to secure the validation under the Plenary Powers of the well-known generic name *Asaphus* Brongniart, 1822 (Class Trilobita). Following correspondence with the Secretary, this application was revised in certain respects and on 21st February 1956 the

following definitive application was submitted by Dr. Jaanusson for the consideration of the International Commission :—

Proposed use of the Plenary Powers to suppress the generic name "Asaphus" as published by Brongniart in Desmarest, 1817, and to designate a type species in harmony with general usage for the genus "Asaphus" Brongniart, 1822 (Class Trilobita)

By VALDAR JAANUSSON

(*Universitet Paleontologiska Institution, Uppsala, Sweden*)

Plate 4

The object of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers to suppress the generic name *Asaphus* as published by Brongniart in Desmarest, 1817, and to designate as the type species of *Asaphus* Brongniart, 1822, the species generally accepted as such, thereby avoiding the serious confusion which would inevitably result from the application of the normal provisions of the *Règles* in this case. It is hoped that it will be possible for the International Commission to give an early decision on the present application, since a decision is urgently required in connection with the preparation of the relevant portion of the forthcoming *Treatise on Invertebrate Paleontology*. The details relating to this case are set out in the following paragraphs.

2. The generic name *Asaphus* was published by Brongniart in Desmarest, 1817 (: 517). The only nominal species included by him in the genus were *A. debuchianus* n. sp. and *A. haussmannii* n. sp. According to the current classification the former species is placed in the asaphid genus *Ogygiocaris* Angelin, 1854, while the latter species is regarded as the type species of *Odontochile* Hawle & Corda, 1847, and belongs to a group of trilobites generally considered unrelated to the asaphids (Phacopidacea.)

3. The genus *Asaphus* was redescribed by Brongniart in Brongniart & Desmarest, 1822 (: 17—25). In addition to the two species mentioned in paragraph 2 above, the nominal species *Trilobites cornigerus* Schlotheim, 1820, *Trilobus caudatus* Brünnich, 1781, and *Entomostracites laticauda* Wahlenberg, 1821, were on this occasion included in the genus.

4. Subsequent writers generally have considered the generic name *Asaphus* to have been established by Brongniart in 1822, and, in fact,

I do not know in the literature after Brongniart, 1822, any reference to the genus *Asaphus* as established in Desmarest, 1817.

5. Although S. A. Miller, 1889 (: 531) selected *A. cornigerus* (Schlotheim, 1820) as the type, the type species for the genus *Asaphus* Brongniart, 1822, generally accepted in the literature is *Asaphus expansus* (Wahlenberg) (Vogdes, 1890 : 84 ; Reed, 1930 : 289 ; Jaanusson, 1953 : 391 ; Balaschova, 1953 : 386).

6. Neither of the species originally included by Brongniart in *Asaphus* in 1817 belong to this genus in its universally accepted sense. The selection of one of them as the type species of *Asaphus* would, therefore, create serious confusion both in trilobite taxonomy and in Lower Ordovician stratigraphy. As the 1817 publication of this generic name has completely escaped the attention of trilobite workers up till now, the suppression of the generic name *Asaphus* as published by Brongniart in Desmarest in that year would best serve the interests of stability in nomenclature.

7. Of the species included by Brongniart in Brongniart & Desmarest, 1822, in the genus *Asaphus* only *Trilobites cornigerus* Schlotheim, 1820, belongs to the genus in its accustomed sense, the other species having been transferred to other genera long ago, and, with the exception of *Asaphus debuchianus*, even to other families. As regards *Asaphus cornigerus* (Schlotheim), Brongniart (1822 : 18) stated : " Cette espèce semble s'éloigner beaucoup des suivantes et former une division particulière. Elle constituerait à elle seule le genre Asaphe, si des observations ultérieures prouvaient que les autres espèces doivent être réunies soit aux Calymènes, soit aux Ogygies ". This can be interpreted as a kind of designation of the type species. The specific name *Trilobites cornigerus* was published by Schlotheim in 1820 (: 38) but already in 1810 (: 1, Pl. 1, figs. 1—3) the species had been described and figured by him without a specific name (*Trilobites novus*). Fr. Schmidt (1898 : 2—3 ; 1901 : 2—3) had an opportunity of examining the original specimen figured by Schlotheim in 1810 as figure 1 on Plate 1 in connection with his monographic treatment of the genus *Asaphus*. At first (1898 : 2—3) he was inclined to regard this specimen as conspecific with *Asaphus kowalewskii* Lawrow, 1856, but after a renewed examination of this specimen he considered it to be too fragmentary for specific determination (1901 : 2—3). He stated (*loc. cit.*) that " der *A. cornigerus* Schloth. ist von vorn herein auf zu mangelhaftes Material fundiert und so mangelhaft beschrieben worden dass ich seine Rehabilitierung für nicht zuverlässig halten kann ". The other specimens figured by Schlotheim, 1810 on Pl. 1, namely those shown as figs. 2 and 3, were apparently not traceable even at the time when Fr. Schmidt had access to his original material. According to Fr. Schmidt (1898 : 3) these figures obviously represent specimens not conspecific with that shown on Schlotheim's Pl. 1,

fig. 1 ["stellen augenscheinlich andere Asaphiden vor"]. On the basis of Schlotheim's figures alone these specimens are, however, specifically indeterminable. According to information received from Professor W. Gross, Humbolt-Universität, Berlin (*in litt.* March 22nd, 1952) all the original material of Schlotheim was lost during the recent war. *Trilobites cornigerus* Schlotheim, 1820, was considered as a *nomen dubium* by Jaanusson (1953 : 393) and as such the nominal species so named is wholly unsuitable for selection as a type species. From the point of view of promoting stability of nomenclature within the genus *Asaphus* in its accustomed use it would be best to suppress the specific name *cornigerus* Schlotheim, 1820, as published in the combination *Trilobites cornigerus*.

8. *Entomostracites expansus* Wahlenberg was considered by Brongniart (1822 : 18, footnote 1, cf. also : 19) as a junior subjective synonym of *Asaphus cornigerus* (Schlotheim, 1820). He evidently attributed the specific name *expansus* to Wahlenberg, 1821, and used for this species the older name of Schlotheim (1820). Wahlenberg, 1821, on the other hand, regarded Linnaeus (1768) as the founder of the specific name *expansus* and listed (: 25) *Trilobites novus* of Schlotheim, 1810 [= *cornigerus* Schlotheim, 1820] as a synonym of *Entomostracites expansus* (Linnaeus, 1768). Wahlenberg's main paper on the trilobites was already printed in 1818, as is evident *inter alia* from the introduction to his "Additamenta" (Wahlenberg 1821 : 293) and reprints of this paper were evidently also distributed separately in this year. Under the *Règles* preprints issued in this way have no status for nomenclatorial purposes (1950, *Bull. zool. Nomencl.* 4 : 146, Point 19(b)). Volume 8 of the *Nova acta Regiae Soc. Sci. Upsaliensis* which includes both the main trilobite paper of Wahlenberg and also his "Additamenta" was published and distributed first in 1821. According to the *Règles* both papers date from 1821. The main trilobite paper of Wahlenberg is usually referred to in the literature as "Wahlenberg 1818 (1821)" or "(1818) 1821", and his "Additamenta" as "Wahlenberg 1821". Owing to the fact that the main trilobite paper of Wahlenberg, 1821, was printed prior to the paper of Schlotheim (1820) no mention is made in it of the specific name *Trilobites cornigerus* Schlotheim, 1820.

9. The specific name *expansus* was used for this trilobite first by Linnaeus (1768 : 160) as *Entomolithus paradoxus* α *expansus*. In the International Commission's *Opinion* 296 (1954), however, the *Regnum Lapideum* of the Twelfth Edition of the *Systema Naturae* by Linnaeus (1768) has been suppressed for nomenclatorial purposes. The specific name *expansus* is, therefore, available first from the next description which was given to it, namely that by Wahlenberg, 1821, under the name *Entomostracites expansus*. Wahlenberg did not illustrate this species but his collection preserved at the Museum of the Palaeontologi-

cal Institute, Uppsala University, includes many specimens of the species generally recognised as *Asaphus expansus*, and several of these specimens are also accompanied by labels bearing the name "*Entomostracites expansus*" in Wahlenberg's own handwriting. Naturally, the concept of the species was broader in Wahlenberg's time than it is today, and several other *Asaphus* species were included by him in *Entomostracites expansus*. The specimens of the species later generally determined as *Asaphus expansus* are, however, more numerous in Wahlenberg's collection than are the specimens of other species also included by him in his *Entomostracites expansus*. In order to preserve the specific name *Asaphus expansus* for use in harmony with accustomed practice, one of the former specimens should be selected as the lectotype of the nominal species *Entomostracites expansus* Wahlenberg, 1821. The specimen bearing the Number Ög. 23 is accordingly here selected as the lectotype. On the label accompanying this specimen is written in an unknown hand "Canalen vid Heda, Ljung eller Wreta Kloster", and in Wahlenberg's handwriting "Entom. expansus". The specimen is figured on the plate annexed to the present application. The following labels are attached to the specimen: Heda [= name of the locality] and "Pal. Inst. Uppsala. Wahlenbergs samling. Nr. Ög. 23".

10. It must be noted at this point that in 1953 (: 391) Balaschova selected a lectotype for *Asaphus expansus*, which, following Fr. Schmidt (1898 : 19) she attributed to Dalman. The specimen chosen by Balaschova was from Isvos, Volchov, Ingermanland (Leningrad district) which had been figured by Fr. Schmidt in 1901 (pl. 1, fig. 2). Further, as a precautionary measure Balaschova at the same time designated a neotype, also from the Leningrad district. It is necessary to take note here that, although Balaschova attributed the name *expansus* to Dalman, Dalman himself correctly attributed this name to Wahlenberg. Under the rules laid down by the Copenhagen Congress of 1953 no neotype can be validly selected for any nominal species for which any part of the original type material is extant. As has been shown in paragraph 9 above, numerous specimens of Wahlenberg's are still preserved and accordingly no neotype for *expansus* Wahlenberg can validly be selected by any author. Similarly, no lectotype for a nominal species can be validly selected except from among the surviving syntypes of the species concerned, and, as the lectotype selected by Balaschova was not one of Wahlenberg's specimens, her lectotype selection is invalid.

11. As pointed out in paragraph 5 above, the species accepted as the type species of *Asaphus* Brongniart, 1822, by all modern authors is *Entomostracites expansus* Wahlenberg and any disturbance of this practice would lead to serious and quite unjustified confusion. It is accordingly proposed that the Commission should under its Plenary Powers set aside all type selections hitherto made for the genus *Asaphus* Brongniart, 1822, and that, having done so, it should designate the foregoing species to be the type species of this genus.

12. The generic name *Asaphus* Brongniart, 1822, was taken as the base for a family name ASAPHIDAE by Burmeister in 1843 (: 118). This name should now be placed on the *Official List of Family-Group Names in Zoology*.

13. In the light of the considerations advanced in the present application, the International Commission on Zoological Nomenclature is asked :—

(1) to use its Plenary Powers :

- (a) to suppress the under-mentioned generic name for the purposes both of the Law of Priority and of the Law of Homonymy : *Asaphus* Brongniart, 1817 ;
- (b) to suppress the under-mentioned specific name for the purposes of the Law of Priority but not for those of the Law of Homonymy : *cornigerus* Schlotheim, 1820, as published in the combination *Trilobites cornigerus* ;
- (c) to set aside all type selections for the genus *Asaphus* Brongniart, 1822, made prior to the Ruling now asked for and, having done so, to designate *Entomostracites expansus* Wahlenberg, 1821, as defined by the lectotype selected in paragraph 9 of the present application, to be the type species of the foregoing genus ;

(2) to place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Asaphus* Brongniart, 1822, as validated under the Plenary Powers under (1)(a) above (gender : masculine) (type species, by designation under the Plenary Powers under (1)(c) above : *Entomostracites expansus* Wahlenberg, 1821, as defined in (1)(c) above) ;

(3) to place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *expansus* Wahlenberg, 1821, as published in the combination *Entomostracites expansus* and as defined by the lectotype specified in (1)(c) above (specific name of type species of *Asaphus* Brongniart, 1822) ;

(4) to place the under-mentioned generic name on the *Official Index of Rejected and Invalid Generic Names in Zoology* : *Asaphus* Brongniart, 1817, as suppressed under the Plenary Powers under (1)(a) above ;

(5) to place the under-mentioned specific names on the *Official Index of Rejected and Invalid Specific Names in Zoology* :—

- (a) *expansus* Linnaeus, 1768, as published in the combination *Entomolithus paradoxus* [var.] α *expansus* (published in a work rejected for nomenclatorial purposes) ;

(b) *cornigerus* Schlotheim, 1820, as published in the combination *Trilobites cornigerus*, as suppressed under the Plenary Powers under (1)(b) above ;

(6) to place the under-mentioned family group-name on the *Official List of Family-Group Names in Zoology*: ASAPHIDAE Burmeister, 1843 (type genus : *Asaphus* Brongniart, 1822).

References

- Balaschova (E.A.), [Title in Russian] transcription of title : *K istorii razvitija roda "Asaphus" v ordovike Pribaltiki* ; German translation of title : *Zur Entwicklungsgeschichte der Gattung "Asaphus" im Ordovizium von Vorbalticum*, Moscow
- Brongniart (A.) & Desmarest (A.G.), 1822. *Histoire naturelle des Crustacés fossiles, sous les rapports zoologiques, et géologiques*, Paris
- Burmeister (H.), 1843, *Die Organisation der Trilobiten*, Berlin (G. Reimer)
- Dalman (J.W.), 1827. Om Palaeaderna eller de så kallade trilobiterna. *Kongl. Vetensk. Akad. Handlingar for år 1826*. Stockholm
- Desmarest (A.G.), 1817. *Nouveau Dictionnaire d'Histoire naturelle*, 2nd edition, Vol. 8, Paris
- Jaanusson (V.), 1953. Untersuchungen über baltoskandische Asaphiden I. Revision der mittelordovizischen Asaphiden des Siljan-Gebietes in Dalarna. *Arkiv för Mineralogi och Geologi*, Bd. 1, Nr. 14, Stockholm (printed in Uppsala)
- Linnaeus (C.), 1768. *Systema Naturae*, Vol. 3 (Regnum Lapideum), Twelfth edition
- Miller (S.A.), 1889. *North American Geology and Paleontology for the use of Amateurs, Students and Scientists*, Cincinnati
- Reed (F.R.C.), 1930. A review of the Asaphidae. *Ann. Mag. nat. Hist.*, Ser. 10, Vol. 5, London
- Schlotheim (E.Fr.v.), 1810. Beschreibung einer seltenen Trilobiten-Art. Leonhard's *Taschenbuch f.d. gesamte Mineralogie*, Bd. 4, Frankfurt a.M.
- , 1820. *Die Petrefactenkunde auf ihrem jetzigen Standpunkte durch die Beschreibung seiner Sammlung versteinerter und fossiler Überreste des Thier- und Pflanzenreichs der Vorwelt erläutert*, Gotha
- Schmidt (Fr.), 1898. Revision der ostbaltischen silurischen Trilobiten, Abt. V, Lief. 1. *Mémoires de l'Acad. Imp. des Sciences de St.-Petersbourg*, VIII Sér., Vol. VI, No. 11, St. Pétersbourg

- , 1901. Revision der ostbaltischen silurischen Trilobiten, Abt. V, Lief. II. *Mémoires de l'Acad. imp. des Sciences de St.-Petersbourg*, VIII Sér., Vol. XII, No. 8, St. Pétersbourg
- Wahlenberg (G.), (1818), 1821. Petrificata telluris Svecanae. *Nova acta Regiae Soc. Sci. Upsaliensis*, Vol. 8, Upsaliae
- , 1821. Additamenta quaedam ad petrificata telluris Svecanae. *Nova acta Regiae Soc. Sci. Upsaliensis*, Vol. 8, pp. 293—296, Upsaliae
- Vogdes (A.W.), 1890. A bibliography of Paleozoic Crustacea from 1698 to 1889. Including a list of North American species and a systematic arrangement of genera. *Bull. U.S. Geological Survey*, No. 63, Washington

Explanation to Plate 4

Illustrations of the Lectotype of *Entomostracites expansus* Wahlenberg, 1821 (*Asaphus expansus* (Wahlenberg, 1821)), here selected. Palaeontological Institute, Uppsala University, No. Ög. 23).

All the figures are twice the natural size. The specimen is whitened with ammonium chloride. The photographs are by Mr. N. Hjorth, Palaeontological Institute, Uppsala University. They have not been retouched.

Fig. 1. Dorsal view of the cephalon and the foremost thoracic segments

Fig. 2. Lateral view of the dorsal exoskeleton

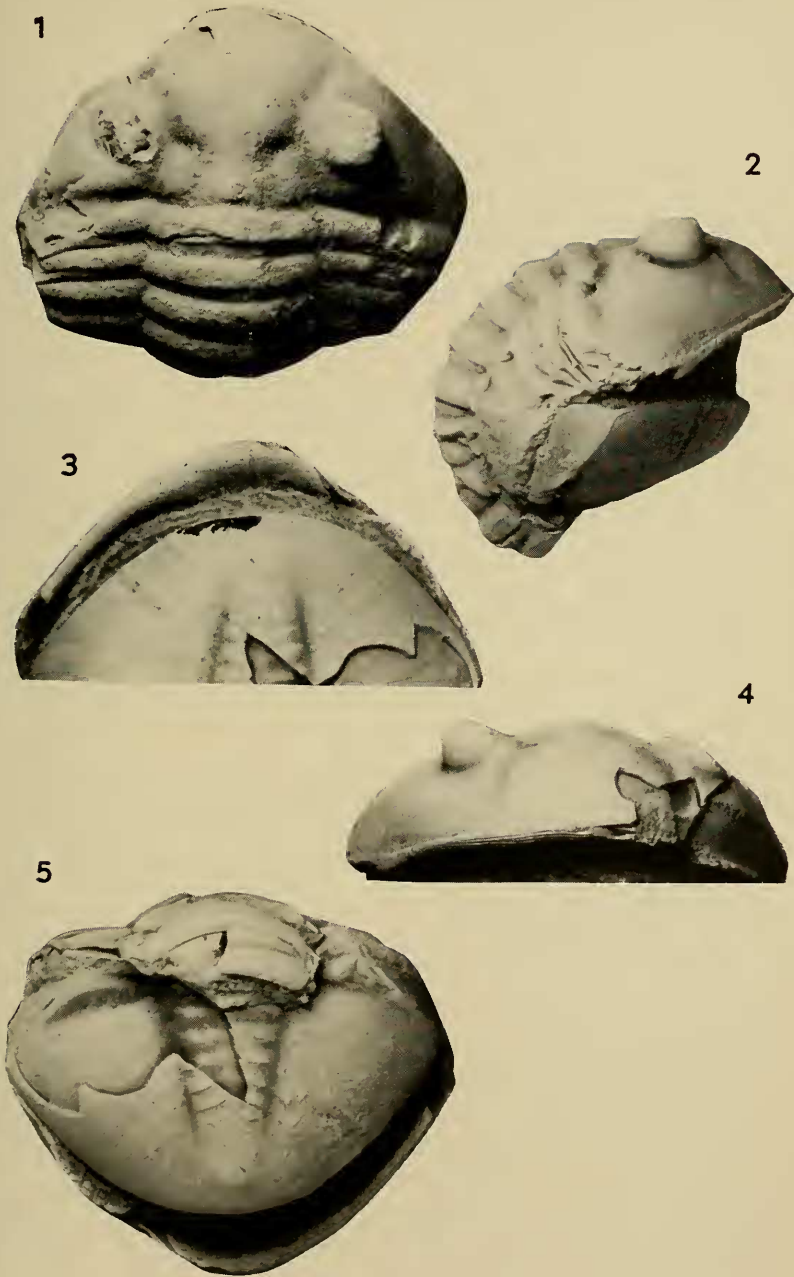
Fig. 3. Ventral view of the cephalon to show the cephalic doublure

Fig. 4. Anterior view of the cephalon

Fig. 5. Dorsal view of the pygidium

II. THE SUBSEQUENT HISTORY OF THE CASE

2. Registration of the present application : Upon the receipt of Dr. Jaanusson's application the question of the validation of



Lectotype of *Entomostracites expansus* Wahlenberg, 1821 (*Asaphus expansus* (Wahlenberg, 1821)).

For explanation of figs. see opposite page.

the generic name *Asaphus* Brongniart, 1822 (Class Trilobita) was allotted the Registered Number Z.N.(S.) 636.

3. Publication of the present application : The present application was sent to the printer on 29th February 1956 and was published on 26th June of the same year in Part 3 of Volume 12 of the *Bulletin of Zoological Nomenclature* (Jaanusson, 1956, *Bull. zool. Nomencl.* **12** : 90—96).

4. Issue of Public Notices : Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 26th June 1956 (a) in Part 3 of Volume 12 of the *Bulletin of Zoological Nomenclature* (the Part in which Dr. Jaanusson's application was published) and (b) to the other prescribed serial publications. In addition, such Notice was given to four general zoological serial publications and to three palaeontological serials in Europe and America.

5. Support Received : The action recommended in the present case was supported by four specialists. These specialists were resident in the following countries :—Denmark (one) ; Germany (two) ; United Kingdom (one). The communications so received are reproduced in the immediately following paragraphs.

6. Support received from Rudolf and Emma Richter (Forschungs-Institutes und Natur-Museums Senckenberg, Frankfurt a.M., Germany : On 30th July 1956 Dr. Rudolf Richter and Frau Emma Richter (*Forschungs-Institutes und Natur-Museums Senckenberg, Frankfurt a.M., Germany*) addressed the following letter to the Office of the Commission in support of a number of cases concerning names in the Class Trilobita which had been published

in the *Bulletin of Zoological Nomenclature* (Richter (R.) & Richter (E.), 1956, *Bull. zool. Nomencl.* **12** : 255) :—

Für den Fall, dass es den betressenden Anträgen helsen kann, möchten wir Ihnen mitteilen, dass wir sie im Interesse der Stabilität der Nomenklatur nachdrücklich unterstützen.

Es handelt sich um folgende Anträge: *Paradoxides*, *Asaphus*, *Trinucleus* and *Cryptonymus*.

7. Support received from Christian Poulsen (Universitetets Mineralogisk-Geologiske Institut, Copenhagen) : On 5th October 1956 Dr. Christian Poulsen (*Universitetets Mineralogisk-Geologiske Institut, Copenhagen*) addressed the following letter to the Office of the Commission in which he supported the action proposed in the present case and in other cases concerning names in the Class Trilobita which had been published in the *Bulletin of Zoological Nomenclature* (Poulsen, 1956, *Bull. zool. Nomencl.* **12** : 314) :—

I heartily support the applications made by Dr. V. Jaanusson regarding the name *Asaphus* Brongniart, 1822 (Class Trilobita), and the name *Cryptonymus* Eichwald, 1825 (Class Trilobita), and I highly recommend the procedure proposed in connection with these applications.

8. Support received from C. J. Stubblefield (Geological Survey and Museum, London) : On 5th October 1956 Dr. C. J. Stubblefield (*Geological Survey and Museum, London*) addressed the following letter to the Office of the Commission in which he supported the present and another recently-published application by Dr. Jaanusson (Stubblefield, 1956, *Bull. zool. Nomencl.* **12** : 314) :—

I support Dr. Jaanusson's proposal that the well-known name *Asaphus* Brongniart, 1822, be validated and that *Cryptonymus* Eichwald, 1825, be suppressed for purposes of the Law of Priority but not for those of the Law of Homonymy. I consider both proposals would legalise current usage and would be in the interests of nomenclatorial stability.

9. No Objection Received : No objection to the action proposed in the present case was received from any source.

III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

10. Issue of Voting Paper V.P.(57)9 : On 22nd January 1957 a Voting Paper (V.P.(57)9) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the generic name *Asaphus* Brongniart, 1822, as set out in Points (1) to (6) in paragraph 13 on page 94 of Volume 12 of the *Bulletin of Zoological Nomenclature* " [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Opinion*].

11. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 22nd April 1957.

12. Particulars of the Voting on Voting Paper V.P.(57)9 : At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(57)9 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Hering ; Boschma ; Holthuis ; Prantl ; Lemche ;
Mayr ; Dymond ; Bodenheimer ; Vokes ; Riley ;
Esaki ; Key ; Hemming ; Bonnet ; Mertens ; Jaczewski ;
Stoll ; Cabrera ; do Amaral ; Kühnelt ; Tortonese ;
Sylvester-Bradley ; Miller ;

(b) *Negative Votes :*

None ;

(c) *Prevented from Voting by the interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

(d) *On Leave of Absence, one (1) :*

Bradley (J.C.) ;

(e) *Voting Papers not returned :*

None

13. Declaration of Result of Vote : On 24th April 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(57)9, signed a Certificate that the Votes cast were as set out in paragraph 12 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

14. Preparation of the Ruling given in the present “ Opinion ” : On 3rd January 1958 Mr. Hemming prepared the Ruling given in the present *Opinion* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)9.

15. Original References for Generic and Specific Names : The following are the original references for the generic and specific